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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)** CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER **BERK-032**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/573,796

INTERNATIONAL APPLICATION NO. US2004/032407

INTERNATIONAL FILING DATE 09/29/2004

PRIORITY DATE CLAIMED September 29, 2003

TITLE OF INVENTION

METHODS FOR IDENTIFYING A BIOSYNTHETIC PATHWAY GENE PRODUCT

APPLICANT(S) FOR DO/EO/US

KEASLING, JAY, NEWMAN, JACK, PITERA, DOUGLAS, WITHERS III, SYDNOR, REILING, KEITH, MARTIN, VINCENT. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. 🔲 This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. 🔲 This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))) a. is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office(RO/US) 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NO.T expired. d. have not been made and will not be made. 8. 🔲 An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. 🔲 An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. 🛛 A preliminary amendment. 14. 🔲 An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. 🛛 A power of attorney and/or change of address letter. 17. 🛛 A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. 🛛 Other items or information: PTO-2038; Extension of Time; Paper Copy Sequence Listing; Supplemental ADS; Copy of Missing Req., Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. 1450, Alexandria, VA 22313-1450. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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| • | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/573,796 | | 1.5) | INTERNATIONAL APPLICATION NO. US2004/032407 | | ATTORNEY'S DOCKET NUMBER BERK-032 | | | |
|---|---|--|------------------------|--|-------------------------|------------------------------------|-----|--|--|
| ı | The following fees are submitted: | | | | CALCULATIONS | PTO USE ONLY | | | |
| | 21. Basic national fee (37 CFR 1.492(a)) | | | | | \$ | | | |
| | 22. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | \$ | | | |
| | 23. Search fee (37 CRF 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | \$ | | | |
| | TOTAL OF 21, 22 and 23 = | | | | | \$ | | | |
| | listing or compute | itional fee for specification and drawings filed in paper over 100 sheets (excluding sequence or computer program listing filed in an electronic medium). The fee is \$250 for each onal 50 sheets or paper or fraction thereof. | | | | | | | |
| | Total Sheets | | | each additional 50 or fraction und up to a whole number) | RATE | | | | |
| | - 100 = | /50 = | | | X \$250.00 | \$ | | | |
| | Surcharge of \$130.00 for priority date (37 CFR 1.4 | 30.00 for furnishing the oath or declaration later than 30 months from the earliest claim CFR 1.492(e)). | | | the earliest claimed | \$ 130.00 | | | |
| | CLAIMS | NUMBER FILE | D | NUMBER EXTRA | RATE | \$ | | | |
| | Total Claims | | - 20 = | | × \$50.00 | \$ | | | |
| | Independent Claims | - 3 = | | | x \$200.00 | \$ | | | |
| | MULTIPLE DEPENDEN | ENT CLAIMS(S) (if applicable) | | | + \$360.00 | \$ | | | |
| | TOTAL OF ABOVE CALCULATIONS = | | | | | \$ | | | |
| | Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | | | | | |
| | SUBTOTAL = | | | | | \$ 65.00 | | | |
| | Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | | \$ | | | |
| | | | | | | \$ 65.00 | | | |
| | | | | | | \$ | | | |
| | | 40533305 | S ENCLOSED = | \$ 65.00 | | | | | |
| | S LLANDBRA 00000010 | | Amount to be refunded: | \$ | | | | | |
| 01 FC:261 | 17 65.00 GP | | | | | Amount to be charged: | \$ | | |
| | a. A check in the | e amount of \$ to c | | | | | | | |
| | b. Please charge my Deposit Account No. <u>50-0815</u> in the amount of <u>\$</u> to cover the above A duplicate copy of this sheet is enclosed. | | | | | | es. | | |
| | c. The Commissioner is hereby authorized to charge any additional fees (other than excess claim fees) which may be required, or creoverpayment to Deposit Account No. 50-0815. A duplicate copy of this sheet is enclosed. | | | | | | | | |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Cr information should not be included on this form. Provide credit card information and authorization or | | | | | | | | | |
| | NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) mugranted to restore the International Application to pending status. | | | | | | | | |
| | SEND ALL CORRESPO | SEND ALL CORRESPONDENCE TO: | | | | | | | |
| | | | | | | TURE A. Borden | | | |
| | NAME | | | | | | | | |
| | | | | | <u>42,344</u> REGIST | RATION NUMBER | | | |



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT 10/573,796 Jav D. Keasling ·

ATTY. DOCKET NO. BERK032

INTERNATIONAL APPLICATION NO.

PCT/US04/32407

I.A. FILING DATE

PRIORITY DATE

09/29/2004

09/29/2003 ·

CONFIRMATION NO. 7712 371 FORMALITIES LETTER

OC000000020344850

24353 BOZICEVIC, FIELD & FRANCIS LLP 1900 UNIVERSITY AVENUE SUITE 200 EAST PALO ALTO, CA 94303

Date Mailed: 09/08/2006

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 03/27/2006
- Copy of the International Search Report filed on 03/27/2006
- U.S. Basic National Fees filed on 03/27/2006
- Priority Documents filed on 03/27/2006
- Specification filed on 03/27/2006
- Claims filed on 03/27/2006
- Abstracts filed on 03/27/2006
- Drawings filed on 03/27/2006
- Paper nucleotide sequence listings filed on 03/27/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this lette

SUMMARY OF FEES DUE:

SEP 1 8 2006

Bozicevic, Field, & Francis

Total additional fees required for this application is \$65 for a Small Entity:

\$65 Surcharge.

- This application clearly fails to comply with the requirements of 37 CFR. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825 (d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821 (e) may be submitted in lieu of a new CRF.
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

ANITA D JOHNSON

Telephone: (703) 308-9140 EXT 226

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|----------------------------|-------------------------------|------------------|
| 10/573,796 | PCT/US04/32407 | BERK032 |

FORM PCT/DO/EO/905 (371 Formalities Notice)